

What is claimed is:

1. An image pickup apparatus, comprising:

a solid-state image pickup device where high-sensitivity pixels and low-sensitivity pixels are formed;

control means for calculating an exposure value based
5 on values of signal detected by said high-sensitivity pixels and values of signal detected by said low-sensitivity pixels, which are output from said solid-state image pickup device; and

signal processing means for reading data of an image
10 picked up by said solid-state image pickup device and processing according to the exposure value.

2. An image pickup apparatus, comprising:

image pickup means for picking up a subject image;

15 received light quantity detecting means where high-sensitivity pixels and low-sensitivity pixels are formed; and

control means for calculating an exposure value based on signal showing received light quantity detected by said
20 high-sensitivity pixels and signal showing received light quantity detected by said low-sensitivity pixels, which are output from said received light quantity detecting means, and controlling said image pickup means to pick up a subject image according to the exposure value.

3. A photometer which calculates a exposure value of the image pickup apparatus, comprising:

received light quantity detecting means where high-sensitivity pixels and low-sensitivity pixels are mounted;

5 and

calculating means for calculating the exposure value based on signal showing received light quantity detected by said high-sensitivity pixels and signal showing received light quantity detected by said low-sensitivity pixels,
10 which are output from the received light quantity detecting means.

4. An image pickup apparatus, comprising:

a solid-state image pickup device where high-sensitivity pixels and low-sensitivity pixels are formed;
15 and

a calculator which calculates an exposure value based on at least one of light quantity detected by said high-sensitivity pixels and light quantity detected by said low-sensitivity pixels.
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5. An image pickup apparatus, comprising:

an image pickup device which picks up a subject image;

25 a received light quantity detector where high-

sensitivity detectors and low-sensitivity detectors are formed; and

a calculator which calculates an exposure value based on at least one of light quantity detected by said high-sensitivity detectors and light quantity detected by said
5 low-sensitivity detectors.

6. A photometer for calculating an exposure value of an image pickup apparatus, comprising:

10 a received light quantity detector where high-sensitivity detector and low-sensitivity detectors are formed; and

a calculator which calculates the exposure value based on at least one of light quantity detected by said high-sensitivity detectors and light quantity detected by said
15 low-sensitivity detectors.